

METHOD AND APPARATUS FOR IMPLEMENTING INTELLIGENT SPIN-UP FOR A DISK DRIVE

Abstract of the Disclosure

5 A method and apparatus are provided for implementing intelligent spin-up for a disk drive. When a command is received, checking for a disk drive start command is performed. Responsive to identifying the disk drive start command, a no-start flag is checked. Responsive to identifying the no-start flag being set, an error code is returned without starting the disk drive. The disk drive is started only when the no-start flag is not set. During
10 operation of the disk drive, the disk drive is monitored to identify a drive fault condition. Responsive to identifying a disk drive fault, the identified disk drive fault is checked to identify a predefined inoperative drive or dead device fault. When a predefined dead device fault is identified, the no-start flag is set and an error code for the predefined dead device fault is stored.
15 Also a no-load flag is set that is used when the disk drive is running to stop the disk drive and return an error code before the transducer heads are loaded.